

Claims

1. An evaporative cooling unit to be positioned in ambient air and including
 - (a) a housing having a top and a bottom, said housing circumscribing a central area;
 - (b) a fan mounted at the top of said housing to produce a flow of air into said housing;
 - (c) a support surface mounted in said central area and spaced apart from said housing;
 - (d) a plurality of canted vanes extending from said support surface to said housing to guide said flow or air along a helical path through said housing; and,
 - (e) an arcuate lip mounted on said bottom of said housing and having an inner surface shaped and dimensioned to permit said flow of air to expand outwardly tangentially over said inner surface over a generally linear path of travel while protecting said flow of air from an inflow of ambient air while said flow of air moves over said inner surface.